Transflection fiber probe

art photonics
broad spectra fiber solutions



FlexiSpec® product line includes high sensitivity Transflection fiber optic probe to be used with any fiber optic spectrometer or photometer. They are available with a number of removable shaft heads, with slit width: 1, 2, or 5 mm (optical pass lengths 2, 4, 10 mm, respectively). These double-pass fiber probes have innovative collimated beam design, and bifurcated structure connecting the probe to both a light source and a spectrometer.

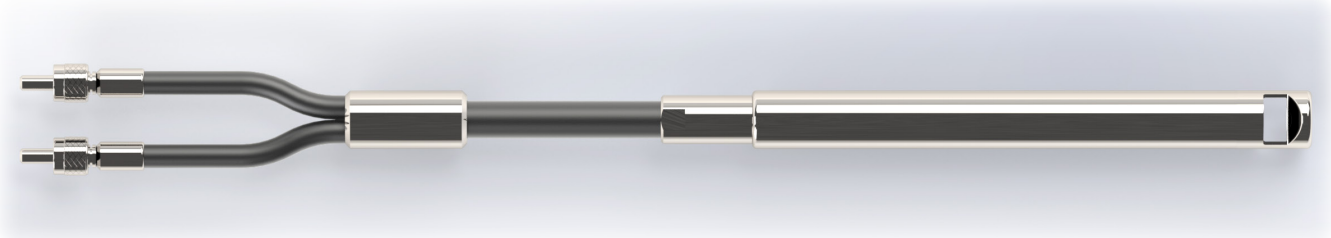
FlexiSpec® Dual Pass fiber optic probes are compatible with process-interfaces to be cleanable and to enable reaction monitoring in lab, pilot plant and run full automated process control.

Applications:

- ✔ Reaction monitoring in real time
- ✔ Process Analytical Technologies (PAT)
- ✔ Analytical Characterization
- ✔ Biopharmaceutical Analysis
- ✔ Biofuel Development & Production

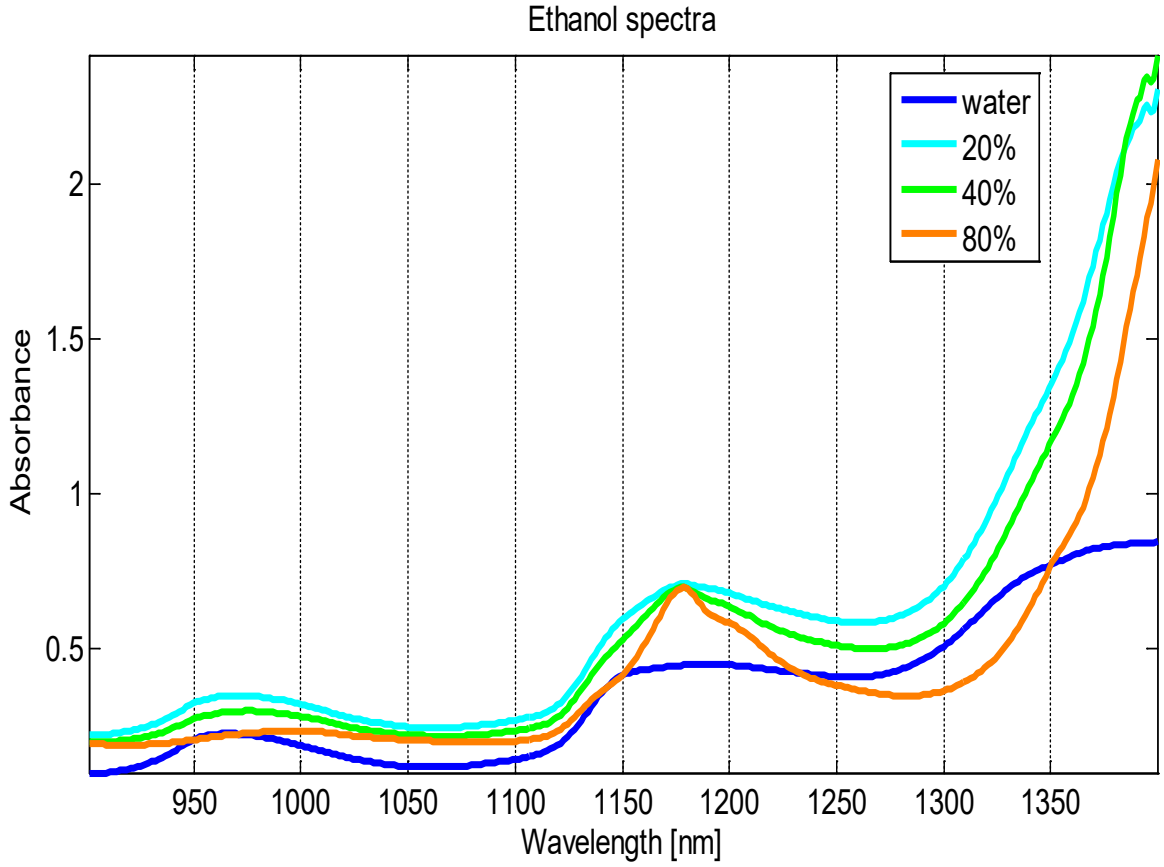
Features:

- ✔ On-line transflection spectroscopy in liquids
- ✔ High throughput in any part of UV - VIS (250 - 1150 nm and VIS-NIR (400 - 2200 nm) spectra
- ✔ Flexible and robust for industrial applications in harsh environment
- ✔ Compatible with all fiber optic spectrometers



Specifications:

Probe type	Dual Pass Transflection probe
Optical path	2, 4, 10 mm (slit width 1, 2, 5 mm)
Optics	Sapphire window
Transmission range	UV –VIS (250 -1150nm) VIS-NIR (400-2200nm)
Fiber type	High OH silica fiber (UV –VIS) Low OH silica fiber (VIS-NIR)
Fiber core/clad	600/660PI
Fiber NA	0.20 ± 0.02
Temperature range	< 200°C
Pressure (max)	200 Bar
Total Length	2 ± 0.05 m
Length of Legs (SMA terminated)	0.5 ± 0.05 m
Shaft Diameter/Length	12/200 mm
Shaft Material	Stainless steel
Protective Tube Material	Liquid Tight Protection (LTP)



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